(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 5 April 2001 (05.04.2001)

PCT

(10) International Publication Number WO 01/23317 A1

- (51) International Patent Classification⁷: 7/12, 7/13, 14/04
- C04B 7/02,
- (21) International Application Number: PCT/US00/25907
- (22) International Filing Date:

21 September 2000 (21.09.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/155,861

24 September 1999 (24.09.1999) US

- (71) Applicant (for all designated States except US): ISG RE-SOURCES, INC. [US/US]; Suite 1300, 136 E. South Temple, Salt Lake City, UT 84111 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PIKE, Clinton, W. [US/US]; 12707 Secret Forest Court, Cypress, TX 77429 (US). NORDMEYER, David, H. [US/US]; 213 CR 575, Castroville, TX 78009 (US).

- (74) Agents: PEACOCK, Bruce, E. et al.; Biebel & French, 35 East First Street, Dayton, OH 45402 (US).
- (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: MASONRY, MORTAR, AND STUCCO CEMENT COMPOSITIONS

(57) Abstract: This invention pertains to a process of making ASTM quality masonry cement, mortar cement, and stucco cement (also called plastic cement) and to the products themselves which are useful in making ASTM quality mortar for masonry construction or ASTM quality stucco for plastering construction. These cements are classified as hydraulic cements and are made using selected pozzolan(s), such as natural pozzolan and fly ashes, Portland Cement, hydrated lime, and an air-entraining agent. Other additives, such as fibers, may be added to further modify its properties. The pozzolans act as functional ingredients in the mix rather than as a filler. As a result, concentrations of greater than 25 wt.% and more pozzolan can be produced.